Complete Product Information

1734-EP24DC

01 / Power-segment dashboard

DC source — 1734-EP24DC — New POINTBus + field segment — Downstream I/O

Installed role

Allen-Bradley 1734-EP24DC is a POINT I/O expansion power supply that extends POINTBus power and creates a separate 24V DC field-power segment for modules to its right.

Partitioning effect

The module interrupts field power from the left and supplies a new segment to the right. Group I/O by signal type or machine function.

Nominal input voltage	24V DC
Input voltage range	10 to 28.8V DC
Field-power bus current	10 A maximum
I/O module capacity	4 to 17 modules, depending on each module current rating

Field-bus and POINTBus limits are separate. Check the actual module-current demand.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apter Power guide - apply manufacturer instructions and site procedures.

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02 / Electrical limits and interfaces

Field-side input requirement	400 mA maximum at 24V DC
Maximum inrush current	6 A for 10 ms
POINTBus current, horizontal	1 A at 10 to 19.2V input; 1.3 A at 19.2 to 28.8V input
POINTBus current, vertical	1 A at 10 to 28.8V input
Maximum power consumption	9.8 W at 28.8V DC
Maximum power dissipation	3.0 W at 28.8V DC

Isolation voltage	50V continuous; tested at 2600V DC for 60 s
Terminal screw torque	0.6 N.m (7 lb.in)
Conductor range	22 to 14 AWG copper, rated at least 75 °C
Status indicators	Green system-power and field-power indicators

Terminal map

0/1: no connection; 2/3: chassis ground; 4/5: common; 6/7: DC supply. Apply the marked polarity and manufacturer wiring diagram.

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03 / System integration and applications

POINTBus capacity expansion

Add backplane power for downstream POINT I/O modules. Total module current determines the segment capacity; check the adapter capacity and mounting-orientation limits before extending the station.

Input and output partitioning

Separate the field-power supply for input modules from the supply for output modules. The new voltage segment begins at the expansion supply and powers modules to its right.

Analog and digital segmentation

Organize analog and digital I/O into separately powered field segments. Keep each segment within its module voltage requirements and calculate its field-current demand.

Function-based I/O grouping

Group modules that perform a particular machine function on a dedicated power segment. This supports a clear cabinet power layout; it does not create safety-rated isolation or replace circuit protection.

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04 / Installation decisions

Isolate the power sources

Remove applicable system and field power before installation, removal or rewiring. Do not connect 120/240V AC to the DC input; use a power source meeting the installation and regional requirements.

Calculate both power budgets

Calculate POINTBus demand and field-load demand separately. Observe the horizontal and vertical current limits; a 10 A field-power rating is not a 10 A POINTBus output rating.

Ground the DIN rail

Mount on grounded zinc-plated, chromate-passivated steel DIN rail and secure the rail and end anchors. The module grounding path depends on the rail contact.

Check the terminal assignments

Use terminals 6/7 for V, 4/5 for common and 2/3 for chassis ground; terminals 0/1 are not connected. Verify polarity and tighten terminal screws to 0.6 N.m.

Protect the open-style module

Use a suitable enclosure and keep the surrounding air between -20 and +55 °C. Protect against electrostatic discharge, condensation and contamination; hazardous locations require the applicable marked approvals and enclosure conditions.

Verify the downstream segment

Seat adjoining modules fully, cover the last exposed interconnection with the end cap and check system/field indicators. Prove the affected I/O functions under the site commissioning procedure before release.

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05 / Maintenance and related references

Indicator interpretation

Steady green	System/field power is in the normal energized condition.
Off	No power is applied to the indicated function; check its source and connections.

Lifecycle and unit identity

Lifecycle: Active. Match the hardware series and installed-station configuration. Confirm current support and proposed changes separately from seller stock availability.

Technical basis

Rockwell Automation POINT I/O 24V DC Expansion Power Supply Installation Instructions, 1734-IN058M-EN-P, July 2026

Other Allen-Bradley I/O references

Allen-Bradley 1769-IQ32

Allen-Bradley 1769-IQ16K

Allen-Bradley 1794-OF4I

Portfolio navigation only. These products belong to other I/O families and are not confirmed substitutes or included items.

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